BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: improvements to drains at Balaji Layout Surroundings at Kodigehall Ward no 08

Est Cost: 30.00lakhs

Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
			m	m	m			
KCPWB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
Balaji layout 5th main	Cum							
on 1-150		2	150.00	1.10	0.95	313.50		
cross road		2	41.00	0.50	0.45	36.90		
						350.40	186.92	65496.77
Basic rate	82							
Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	100							
Area Weightage 6%	4.92							
Final Rate	186.92							
2 Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
RS Slab Drain	Sqm							
cross road		2.00	41.00	1.35	--	110.70		
Consider 15% Missing slabs and damaged slabs						-16.61		
						94.10	80.56	7580.29
Basic rate	76							
Area Weightage 6%	4.56							
Final Rate	80.56							
3 Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
	Sqm							
Consider 15% Missing slabs and damaged slabs						16.61		
						16.61	665.68	11053.62
Basic rate	628							
Area Weightage 6%	37.68							
Final Rate	665.68							

	Description of item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC [illegible] with 40mm and down size graded granite metal coarse aggregates @ [illegible] and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not [illegible] 15 cms. thick, well compacted, in foundation including cost of all materials, [illegible] of machinery, curing complete as per specifications. Specification No. KBS 4.1, [illegible] No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Balaji layout 5th main								
	ch 0-150		2	150	1.1	0.150	49.50		
	cross road		2	41.00	0.20	0.10	1.64		
							51.14	5348.76	**273535.59**
	Basic rate	**5046**							
	Extra Weightage 6%	**302.76**							
	Final Rate	**5348.76**							
	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to [illegible] cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MORTH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture. (P.No.265., I.No37.59.2 PW, P&IWTD SR 2016-17)								
	Culvert	Cum							
	Bottom Slab								
	Balaji layout 5th main								
	ch 0-150		2	150.00	0.90	0.15	40.50		
	Side Walls								
	Balaji layout 5th main								
	ch 0-150		4	150.00	0.15	0.80	72.00		
							112.50	11032.48	**1241154.00**
	Basic rate	**10408**							
	Extra Weightage 6%	**624.48**							
	Final Rate	**11032.48**							

Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
			m	m	m			
KDB 4.1.1 Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS Vol.I (P.No.17, I.No 4.46.2 of PW, P&IWTD SR 2016-17)								
Consider 55Kg/cum for item No.	Tonne		112.50	0.055	--	6.19		
						6.19	64243.42	397666.77
Basic rate	60607							
Area Weightage 6%	3636.42							
Final Rate	64243.42							
KDB 5.4.1 Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.25, I.No.5.26.2 of PW, P&IWTD SR 2016-17)								
Area wall	Sqm	4	41.00	--	0.20	32.80		
						32.80	961.42	31534.58
Basic rate	907							
Area Weightage 6%	54.42							
Final Rate	961.42							
KDB 4.1.6 Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 180kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.17, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
Coping	Cum							
Area wall		4	41.00	0.150	0.075	1.85		
						1.85	5767.46	10669.80
Basic rate	5441							
Area Weightage 6%	326.46							
Final Rate	5767.46							

No.		Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Providing and laying RCC Precast cover slab of 100mm thick for drain in cement concrete with using crushed granite jelly 20mm and down size with steel reinforcement, including form work, all charges, curing and concrete finished surfaces on both sides etc, complete as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
			2	150.00	0.90	--	270.00		
			2	41.00	0.90	--	73.80		
							343.80	1834.00	630529.20
	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.420 cum, machine mixed, concrete laid in layers not exceeding 15 cm thick and compacted, in foundation and plinth, including cost of all materials, labour, cost of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page No.[illegible] of PWD Rate for S.R 2016-17)								
		Cum							
			0.5	2.00	150.00	0.300	0.100	4.50	
			0.5	2.00	41.00	0.300	0.100	1.23	
								5.73	5767.46	33047.55
		5441.00							
		326.46							
		5767.46							
								Total Construction Cost		***2702268.159***
								Cost towards Design Report , PMC / Third Party inspection LS		***27022.68***
								Tender premium 10%		***270226.82***
								Sub Total		***2999517.66***
								Miscellaneous and rounding off		***482.34***
								Total		***3000000.00***

Certificate

1. The workspot was inspected and Provisions made in the estimate are adequate and necessary.
2. Work Spot comes under BBMP limits.
3. The estimate based on PWD CSR for the year 2016-17.
4. This work is not split up.
5. These works are not taken up in any other grants and free from Defect Liability Period.
6. Earlier improvements taken up in the proposed roads are recorded in earlier road history.

Technical Sanction
Accorded For 30.00 lakh Rs
Head of A/C...P3333...
CER NO :...576... Dt:27/01/18

TA CE (YNK)

Assistant Executive Engineer

Executive Engineer
27/01

Administrative Approval
Accorded For 30.00 lakh Rs
Head of A/C...P3333...
CER NO :...216... Dt:27/01/18

TA CE (YNK)

NAME OF WORK:- Improvements of Roads, storm and culverts at Bodaj, Imphal and Kangpokpi at Kangpokpi Located in N.S.